

THE NEED FOR INDUSTRIAL EDUCATION FOR NEGROES  
IN THE STATE OF OKLAHOMA

By

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STRATHMORE PARCHMENT

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## CHAPTER I

### SCOPE AND PURPOSE OF THE STUDY

Industrial education is much older than the industrial revolution, the factory method of production and the development of big business. "In unorganized form it is practically as old as the human race; it has an ancestry of at least five hundred years."<sup>1</sup> Foraging for food, securing adequate shelter and the making of clothes were difficult problems in early times. They were solved by some of the tribesmen, who in turn taught the techniques and methods to those who had not learned the process. Thus, these instructors initiated the earliest form of industrial education.

In America, industrial education evolved as a practical and economical means of aiding the children of ex-slaves in preparing them for economic independence. More and more, as America takes her rightful place as a leader in the world society, with a highly industrialized and specialized culture, people are forced to accept the fruition that training or experience, or both, are necessities in most jobs that once were available without requiring either.

In the state of Oklahoma experiences in industrial education are provided for Negro pupils in fifty of the sixty-six high schools. In the high school this phase of industrial education is known as industrial arts and in most cases

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<sup>1</sup>F. Theodore Struck, Foundations of Industrial Education, page 1.

is limited to a six-hour per week course in woodwork.<sup>2</sup> In 1944 Charles A. Prosser presented a resolution to members of the Office of Education and Vocational Education which pointed out that the high school curriculum is designed to prepare students for college. However, only about twenty per cent enter college. The vocational schools meet the needs of another twenty per cent leaving sixty per cent inadequately prepared for life adjustment. There is a technical training school at Okmulgee, Oklahoma that provides training for white pupils in this sixty per cent category. Although a few Negroes attend this school there is no such school where attendance is predominately Negro. The need for such a school furnishes the basis for this study.

Origin of the Study. Prior to entering Oklahoma Agricultural and Mechanical College, the writer spent twenty-nine months as an instructor in a vocational school in Dallas, Texas with an approximate enrollment of 800 pupils. The writer had the opportunity to talk with many of the students concerning their employment and how they were able to apply knowledge and skills learned in school to their present occupations. During a conference with Dr. DeWitt Hunt, Head of the School of Industrial Arts Education and Engineering Shopwork, Oklahoma Agricultural and Mechanical College, it was suggested that a study be made of the need for a school that

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<sup>2</sup>Phail Wynn, A Survey of the Industrial Arts Programs In the Separate Schools of Oklahoma and A Proposed Program For These Schools.

will aid Negro students who will not go to college or vocational schools to prepare for some type of industrial work.

Techniques Employed. The first method of securing information was to write to organizations such as the United States Bureau of Census, Washington D. C.; Office of Education, Federal Security Agency, Washington D. C.; Chambers of Commerce; and the State Board of Education on Negro Statistics. The second method of securing needed information was the questionnaire method. This method served two purposes: (1) to identify the writer who had visited many places, and (2) to secure data on the attitude of potential employers toward the establishment of an Industrial Education school for Negroes in the state of Oklahoma. Extensive library research has been pursued. However, as previously stated, much information upon which this study is based came from the data collected through the questionnaires and letters sent. Whenever possible, personal interviews and conferences were arranged.

Purpose of the Study. The purpose of this study is to use material gathered as a basis to justify the need for a school devoted to industrial education for Negroes in the state of Oklahoma and to propose a program for this school. This program may include students who have finished high school and students who have dropped out of school before finishing. It concerns people who desire "on the job training," who are satisfied with their present jobs, but are anxious to receive training to equip them to operate more efficiently, thereby providing them with greater security. The

program is not concerned with emphasizing diplomas or degrees but primarily for industrial education in the fields that are not provided for by vocational education.

Another attempt was made to obtain all the statistics on Negro population, employment and migration in the state of Oklahoma; and to reach at least 100 places in the state of Oklahoma in which a program of this nature would be beneficial. An attempt was made to secure the potential employer's attitude on this type of program. It is proposed in this study to present factual information concerning the need for industrial education for Negroes in the state of Oklahoma and to propose a program for a school that will provide training for those persons who desire training in the line of work in which they are most likely to seek employment.

Definitions of Terms Used. In order for the reader and even for the person producing the report to have a consistent understanding of words and phrases that recur frequently in this study, certain and definite meaning should be ascribed to them. In most cases quoted definitions are offered and these definitions express the meaning of the words used which will apply to them throughout the thesis. Some terms and their definitions as used in this thesis are as follows:

Technical Workers. Workers whose task it is to design, control and inspect products and processes.<sup>3</sup>

Skilled Tradesmen. Workers whose task it is to execute

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<sup>3</sup>S. Grant Conner, Introduction to Vocational Education, page 123.



the plans and operate the machines of production, service and maintenance.<sup>4</sup>

Operator. A highly skilled worker in a limited range of machine or assembly line work.<sup>5</sup>

Curriculum. Curriculum may be thought of as a series of integrated subjects, each of which should have a well-organized course of study.<sup>6</sup>

Reviews of Similar Studies. In 1940 Grissom<sup>7</sup> made a study of the occupational opportunities for vocational education for Negroes in the state of Oklahoma. In this study he presented data concerning the occupational distribution of vocational courses offered, the occupational distribution, facilities for vocational training and the lack of guidance for Negroes in the state of Oklahoma. In the study made by Grissom suggestions were made to improve the vocational status of the Negro vocational schools. However, no plan was proposed for a school program.

Another study was made by Phail Wynn<sup>8</sup> on the industrial arts programs in the separate schools in Oklahoma. The objectives of this study are different because there was proposed

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<sup>4</sup>Conner, loc. cit.

<sup>5</sup>Loc. cit.

<sup>6</sup>John F. Friese, Course Making in Industrial Education, page 191.

<sup>7</sup>Thomas William Grissom, Occupational Opportunities and Vocational Education for Negroes in Oklahoma.

<sup>8</sup>Wynn, op. cit.

a program for industrial arts as a phase of general education.

Expected Outcomes and Uses of Results. The results obtained from this study should be useful to all citizens in the state of Oklahoma, especially to Negro youth, inasmuch as it proposes to discuss attitudes of employers and potential employers toward Negro employees. This study proposes to review the literature and investigate the labor conditions for Negroes in the state of Oklahoma. It is predicted that most Negroes are denied employment due to the lack of experience or training for the job rather than discrimination because of race, creed or religion. The data obtained in this study are expected to prove most helpful in pointing out the need and in proposing a program for establishing an industrial education school for Negroes in the state of Oklahoma.

Summary. Based upon the findings of the questionnaires returned, personal experience and an intensive survey of textbooks in shopwork courses, this study proposes to show the need for a program for industrial education. In this chapter, the writer has indicated the reasons for undertaking this study, the apparent need, expected outcomes, origin and methods of investigation. Definitions of related terms have been defined as interpreted in this study. In the following chapter a brief history of the development of Negro labor will be presented.

## CHAPTER II

### DEVELOPMENT OF NEGRO LABOR IN AMERICA

One cannot scan the pages of history which reveal the birth and growth of the southern states of America without realizing the economic role the Negro played in determining that history. As one visualizes the fields of cotton, the rolling hills of staples that created the "southern empire," the labor of Negroes, slave or free, is embedded in the soil. The Negro planted and harvested, and also contributed to the skilled and semi-skilled labor which the economic life of the south demanded.

Among this group of skilled laborers there were the carpenters, the wheelwright, the mason, the bricklayer, the plasterer, the painter, the tanner, the miller, the weaver, the shoemaker, the blacksmith, the harnessmaker, the cooper and others.<sup>1</sup>

Slavery and Industrialism. One of the most critical periods in the development of American sectionalism was during the period in which the 1850 Compromise was operative. The South had flourished and grown wealthy under the established plantation economy. The domestic system established by the whites, of paternal care toward these human machines called "slaves", had sufficiently justified the maintenance of slavery in the hearts and minds of the southern white man. The North held that slavery deprived the nation of "good intelligent citizens." Wesley said, "when slaves and groups are depressed by a master class, the results are always

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<sup>1</sup>Charles Wesley, Negro Labor in the United States, page 3.

petty vices - thievery, discontent, rioting, runaway and indifference."<sup>2</sup> History had proven the results of the slave system unsatisfactory, whether among Greeks, Romans, Germans, Anglo-Saxons, or Africans. Wesley states in this manner:

When it was difficult for slaves to be free or to hope to be free, or for the early apprentice to become journeymen and masters, the permanent subordination became irksome and the worker soon lost the efficiency which his group may have once possessed and degenerated into a machine operating at the master's command.<sup>3</sup>

This condition was especially true among slaves and groups who were in competition with the southern masters often proved to be instrumental in aggravating the above situation.

Post-Civil War Industrial Education. The economic problems that arose immediately after the Civil War for the freed Negro were many. He was like a child, torn from the breast of a mother, and sent out to make his way when he had not yet passed the weaning stage. Unfortunately, only a few Negroes had even learned to read and write, and the ones who had worked the soil and served as semi-skilled and skilled laborers, felt lost and inadequate away from the familiarity of the "plantation" that had "sheltered him from the storms of life."

Negroes were forced to protest and to petition the state legislature and the northern army officials that equal opportunities for labor be given them. The "Freedmen's Aid Societies" sent teachers and missionaries among the freedmen. This

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<sup>2</sup>Ibid., page 2.

<sup>3</sup>Ibid., page 5.



society established schools, and in 1865, there were 90 schools, and 195 teachers maintained by the Freedmen's Bureau. By 1866 this number had grown to 493 schools in the southern states that were being maintained by various state branches of the American Freedmen's Union Commission.<sup>4</sup> The prevailing philosophy of the education of the freedmen was that education and labor should be hand in hand and through this type of education the laborer would receive better wages and the employer would have a better worker.

The women were not neglected in the "trial," to help the freedman adjust. By 1867 twenty-five industrial education schools were planned to assist the female workers in garment making and in repairing clothing. These schools were for the working class of people and their parents paid tuition fees from \$1.00 to \$1.50 per month.<sup>5</sup> These industrial education schools were the forerunners of the industrial education schools of the present time.

Industrialism Succeeds the Domestic System. Between 1870 and 1890, the South began to undergo an economic change. It began to grow industrial and in a sense, the South's agricultural prestige began to diminish. These new conditions made new demands upon the worker. The Negro was familiar with the crude processes of labor, but he was unacquainted with the demands which were made upon labor by machinery and modern in-

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<sup>4</sup>Lorenzo J. Green and Carter G. Woodson, The Negro Wage Earner, page 25.

<sup>5</sup>Ibid., page 26.

dustrial development. Some Negroes were accepted as apprentices and worked along with whites. Yet, the lack of training resulted in inefficiency in many places and at most the Negro could only cast his lot among the semi-skilled labor force. It was apparent that something had to be done and done quickly to aid the Negro in adjusting himself to skilled labor conditions, if he was to survive economically. Thus, there arose the industrial schools.

Hampton Institute. Founded after the Civil War, Hampton Institute was the first industrial school for Negroes of any considerable influence. This institution was founded by General Samuel Chapman Armstrong in 1868, who stated his idea in founding this school was:

To train selected Negro youth who should go out and teach and lead their people, first by example, by getting lands and homes; to give them not a dollar that they could not earn themselves; to teach respect for labor; to replace stupid drudgery with skilled hands and to these ends build up an industrial system for the sake not only of self-support and intelligent labor but also for the sake of character.<sup>6</sup>

The objectives of this school were inspiring to one particular student, Booker T. Washington. He went to Hampton Institute in 1872 and was graduated in 1875.

The Booker T. Washington Era. In 1881, Booker T. Washington became principal of Tuskegee Normal and Industrial Institute where the Washington doctrine of industrial education found expression. Under his leadership, this school became

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<sup>6</sup>Basil Mathews, Booker T. Washington, page 47.

the exponent and Washington the great advocate of industrial education for Negroes.<sup>7</sup>

One of the objectives which Booker T. Washington envisioned for Tuskegee Institute as an educational institution was the development of specific skills in definite crafts and occupations.<sup>8</sup> In public addresses, which he delivered in all parts of the country, he was seeking to bring about the favorable consideration of this type of educational work, to teach the dignity of labor and to create a better understanding between races. This work was very necessary for Negroes were excluded from apprenticeship by the rules of trade unions.<sup>9</sup>

Negro Labor During the World War of 1914. World War I brought on many new opportunities in skilled as well as non-skilled labor for the Negro workmen. They had served as the labor supply in the South but the North had not accepted them in large numbers until the war. The shortage of labor in industry opened jobs and the Negroes moved north and to the Middle West in large numbers to free themselves from the shadow of economic oppression. Karl F. Phillips, Commissioner of Conciliation, who was especially detailed to observe the migration of Negroes, estimated that during these periods

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<sup>7</sup>Benjamin Brawley, A Short History of the Negro, page 165.

<sup>8</sup>Horace Mann Bond, The Education of the Negro in the American Social Order, page 119.

<sup>9</sup>Carter Godwin Woodson, The Negro In Our History, page 441.

there were between 800,000 and 900,000 Negroes who moved north.<sup>10</sup> This movement of Negroes has been continuous but the fact that the World War caused an emergency in which Negro labor was an important source of relief increased this migration. The steel plants, the mills, and the corporations of the North saw the supply at hand and Negro laborers were called to work.

#### A. BRIEF HISTORY OF THE NEGRO IN OKLAHOMA

Prior to admission to the Union the present state of Oklahoma existed as Oklahoma and Indian territories. These Indians were freed and the United States entered into a new treaty with the Indians. Schools for the Indians date back as far as 1836 but the records for Negro schools before 1907 are incomplete.<sup>11</sup> It is known that the first territorial legislature set aside land for the support of schools. During the period from 1895 to 1905 there were established about 500 schools for whites and Indians and about sixty schools for Negroes.<sup>12</sup>

Geographic Movement of the Negro Population in Oklahoma.  
The migration of Negroes may be divided into three phases. The first phase was the shift from one rural area to another

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<sup>10</sup>Wesley, op. cit., page 283.

<sup>11</sup>R. H. Wilson, Fourth Biennial Report of State Superintendent of Public Instruction, pages 223-224.

<sup>12</sup>Annual Report of the Department of Interior 1947, page 8.



within the south. The second movement was still within the south but from rural to urban areas. The third phase was a tremendous acceleration of the migration of Negroes from the south to the north and west. The Negro exodus from the south, 1879 - 1882, affected the whole United States.<sup>13</sup> This migration certainly had its effect upon the history of the Negro in Oklahoma.

About 15.9 per cent of Oklahoma's original settlers were from Kansas.<sup>14</sup> After Oklahoma was opened to settlement most of the occupants came from other states. The whites were predominantly from the north while most of the Negroes were from the three bordering states of Kansas, Missouri, and Texas.

In early days a large number of Negroes settled in the Red River counties where there is fertile bottom land. The trend in recent years has been toward urban centers.

Trend Toward Urban Migration. The outstanding trend is for the Negro population in Oklahoma to become more urban. The number of urban areas in which Negroes reside has increased for each decade and the Negro population in most of the urban areas has grown steadily as indicated by Table I. The Negro population increased from 137,612 in 1910 to 168,849 in 1940. There was an increase for each decade until after which there was a small decrease. As indicated

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<sup>13</sup>Brawley, op. cit., page 129.

<sup>14</sup>Nathaniel Jason Washington, Historical Development of the Negro in Oklahoma, page 37.

in Table I, only 26.9 per cent of the Negro population was urban in the state of Oklahoma in 1910 as compared to 47.2

TABLE I  
RURAL-URBAN DISTRIBUTION OF NEGRO POPULATION OF OKLAHOMA:<sup>15</sup>  
1910-1940

Area	<u>1940</u> <u>Number</u>	<u>1930</u> <u>Number</u>	<u>1920</u> <u>Number</u>	<u>1910</u> <u>Number</u>
Urban	79,696	67,801	47,904	36,982
Rural-Non-Farm	30,276	24,883	23,499	*
Rural-Farm	58,877	79,514	78,005	100,630
Total	168,849	172,198	149,408	137,612

percent in 1940. The greatest increase was during the decade from 1920-1930. The population is scattered in urban areas throughout the state but the greatest concentrations are in Oklahoma City and Tulsa where twenty per cent of the Negro population resides.

Racial Composition of Oklahoma Population. The state of Oklahoma is inhabited by persons from many racial groups. The three races (native white - Negro - Indian) are in majority. There is a tendency for the state to become more bi-racial in nature. This tendency is indicated by the fact

<sup>15</sup>United States Census Bureau, 1940.

\*Rural-Farm and Rural-Non-Farm are not separated for 1910.

that the Indian population decreased from 24.0 per cent of the total population in 1890 to 2.7 per cent of the same in 1940. The percentage of native white has increased steadily, while that for the Negro has remained constant. The largest increases of the Negro population were found during the pre-statehood period and immediately after statehood. However, the percentage of the Negro population compared to the total population has changed very little since 1890.<sup>16</sup>

Distribution by Counties. Negroes have resided in each of the seventy-seven counties in the state at sometime since 1910, although a few of the counties were without a Negro for each of the decades. In 1940, for instance, five counties had no Negro population (Woods, Cimarron, Ellis, Harper and Texas). More than fifty per cent of the Negro Population has been concentrated in ten counties (Oklahoma, Tulsa, Muskogee, Okmulgee, McCurtain, Seminole, Creek, Okfuskee, Logan, and Wagoner).<sup>17</sup>

Comparison of Statistics Relative to Employment of Negroes In 1940. A study of the distribution of the Negro population employment may throw some light on trends in the major occupation groups. Table II shows this distribution of the total employment of white, Negro and other races for 1940. The intention is to assist the reader in understanding the employment situation of Negroes in Oklahoma with the hope that the

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<sup>16</sup>Ibid.

<sup>17</sup>Ibid.

TABLE II

GAINFULLY EMPLOYED PERSONS IN OKLAHOMA: 1940<sup>18</sup>

OCCUPATION	M A L E				F E M A L E			
	Total	White	Negro	Other	Total	White	Negro	Other
Employed (except emergency work)	530,123	491,563	29,826	8,734	128,616	111,068	16,026	1,522
Professional & Semi-professional	29,214	27,719	1,244	251	22,432	20,831	1,358	243
Farmers and Farm managers. . . .	153,246	141,317	8,145	3,784	3,147	2,788	251	108
Officials, except foremen. . . .	55,242	54,288	660	294	8,099	7,766	274	59
Clerical and sales . . . . .	54,832	54,140	329	363	37,069	36,313	221	232
Craftsmen and foremen. . . . .	56,719	55,226	1,008	485	714	682	27	5
Operatives and kindred . . . . .	61,955	59,443	1,966	546	7,495	7,116	283	96
Domestic Service . . . . .	2,089	673	1,387	29	26,188	14,585	11,231	372
Protective Service . . . . .	9,134	8,812	247	75	32	31	1	
Farm laborers and foremen. . . .	57,382	50,502	5,095	1,785	2,275	985	226	64
Laborers, except mine and farm .	27,178	23,118	3,203	857	538	499	33	6
Other Service workers. . . . .	18,995	12,539	6,285	171	18,394	16,200	1,907	287
Occupations not reported . . . .	4,137	3,786	257	94	2,233	1,969	214	50

<sup>18</sup>United States Department of Commerce, Sixteenth Census of United States: 1940, Population, pages 882-886.



situation, when understood, will contribute to a better understanding of the need for an industrial education school on the part of the Negro population of the state.

The table shows the major occupations engaged in by workers in Oklahoma in 1940. The relatively large number of the Negro workers who are in unskilled fields, such as farm laborers, other laborers, janitors and porters, and servants should be noted.

Conclusion. In this chapter the writer has attempted to give a brief industrial history of the development of Negro labor. Current labor migration and industrial educational conditions of Negroes in the state of Oklahoma have been presented. In chapter III, the philosophical aspect of this study will be presented.

## CHAPTER III

### A STATEMENT OF PHILOSOPHY

Industrial education offers facilities for the training of various groups of people, not job training alone but training toward and training for complete and satisfactory living. It is an accepted agreement among educators that industrial education includes both industrial arts and vocational industrial education. For this reason the philosophies of industrial arts and vocational industrial education will be discussed in this chapter. The writer intends to point out the contributions they are making to a limited number of persons and the need for the establishment of an industrial education school that will meet the needs of many who may not profit by industrial arts or vocational industrial education.

#### A. DEFINITIONS

Several terms are often confused that are a phase of or closely related to the term industrial education, therefore, these terms will be defined as interpreted in this report.

Education. Many attempts have been made to define the term education. Some of these definitions are in the form of a statement of purposes or aims. In this manner Wilber<sup>1</sup> states that the aims of education are:

- (1) To transmit a way of life, (2) to improve and

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<sup>1</sup>Gordon O. Wilber, Industrial Arts in General Education, page 3.

reconstruct that way of life and (3) to meet the needs of individuals.

Struck defined education in a more concrete term. He called it the acquisition of knowledge and skills that are useful for general living.<sup>2</sup>

Prosser and Quigley gave a broad definition of education. They said:

. . . It will signify the sum of all experiences which in their results, affect the habits, the thinking and the decision of human beings so that they are able to adapt themselves to their social environment and meet its demand with at least some measure of success.<sup>3</sup>

Prosser and Quigley pointed out that education has a different meaning for different people. The definition would not be the same for the classicist as it would for the materialist or the scientist.

Life Adjustment Education. The National Commission on Life Adjustment Education for Every Youth is often referred to as the "Commission". The Commission's concept of life adjustment education is as follows:

Life adjustment education is designed to equip all American youth to life democratically with satisfaction to themselves and profit to society as home members, workers and citizens. It is concerned especially with a sizable proportion of youth of high school age (both in school and out) whose objectives are less well served by our schools than the objectives of preparation for either a skilled occupation or higher education.<sup>4</sup>

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<sup>2</sup>F. Theodore Struck, Vocational Education for a Changing World, page 5.

<sup>3</sup> Charles A. Prosser and Tho. H. Quigley, Vocational Education In a Democracy, page 1.

<sup>4</sup>Harl R. Douglass, Education For Life Adjustment, page 9.

This definition of life adjustment education does not neglect the students who will go to college or the vocational students, however it is especially interested in those students who will not go to college or vocational schools.

Industrial Arts. Industrial arts is a phase of general education.

As a school subject industrial arts may be defined as a study of the machines, tools and processes by means of which forces of nature are utilized and the raw materials of nature are changed by man to make them more valuable and pleasing. It leads to an understanding of the native qualities of raw materials and of the natural forces together with a knowledge of the methods and practices of utilizing and changing these materials and forces. It is also concerned with the social and economic problems incident to these changes.<sup>5</sup>

From this definition industrial arts is conceived as an answer to the problem of educating boys and girls to live in a world which may be accurately characterized as industrial and technological.

Vocational Industrial Education. The definition of vocational industrial education according to Friese is: "The preparation for entrance upon and for making progress in 'trades' and industrial occupations of all kinds."<sup>6</sup> Vocational industrial education is planned to aid specialized semiskilled or unit-skilled workers and is often referred to as general vocational education.

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<sup>5</sup>State Board of Education of Oklahoma, The Twenty-Second Biennial Report of the State Department of Education of Oklahoma, 1946-48, page 77.

<sup>6</sup>John F. Friese, Course Making in Industrial Education, page 7.



Vocational Education. This term may apply to instruction at various levels.

It embraces out-of-school as well as school experiences, as used with reference to federally aided instruction that meets the requirements of the federal acts. Vocational education refers to the experiences that enable one to carry on successfully a socially useful occupation.<sup>7</sup>

Vocational education whether federally reimbursed or not is often thought of as preparation to carry on a gainful occupation.

Industrial Education. Industrial education has been defined by Friese as:

A generic term including all education activities concerned with modern industry, its raw materials, products, machines, personnel and problems. It therefore includes both industrial arts, the general education forerunner<sup>8</sup> of or introduction to vocational industrial education.

This definition points out that industrial education includes industrial arts which is accepted as a phase of general education and vocational education which is conceived to be preparation for gainful employment.

#### B. PHILOSOPHICAL ASPECT

The purpose of industrial education in a democratic society is to provide an opportunity for all of the people to develop to their fullest potentialities. It has been proven that the present school programs are meeting the needs of approximately forty percent of the people. In 1945, Charles

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<sup>7</sup>Struck, op. cit., page 6.

<sup>8</sup>Friese, op. cit., page 12.

A. Prosser presented a resolution to members in the Division of Secondary and Vocational Education pointing out that the needs of sixty percent of the American youth are not being met adequately in the present school program.

Democracy and Education. A democratic nation must have democratic schools in order to transmit this way of life to coming generations. Since the present programs are not properly caring for sixty per cent of the school's population, the writer believes that education could be made more democratic by establishing schools that would meet the needs of the neglected groups.

Education is made more democratic when it renders a new and needed educational service to a neglected group of citizens or when it improves an old service to any group or when it reduces the cost of any service so as to make it available to them. Most democratizing must be done through public supported institutions.<sup>9</sup>

Education was made more democratic during the decade of 1880-1890 with the origin of industrial arts under the name of manual training. It was also made more democratic by the passing of the Smith-Hughes Act in 1917 and again in 1945, this democratic trend was realized with the origin of Life Adjustment Education Program.

Philosophy and Objectives of Industrial Arts. Industrial arts is a phase of general education. Friese made a statement of philosophy of industrial arts as follows:

Learning and developmental experiences in industrial arts, through types of experiences not otherwise

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<sup>9</sup>Charles A. Prosser and Tho. H. Quigley, op. cit., page 285

available, are essential in the complete social education of every boy in a dominantly industrial democracy.<sup>10</sup>

The philosophy of industrial arts is often revealed by its objectives. Like any other division within the public school curriculum each contributes to the objectives of general education but there are some objectives that may be accomplished better in one division than in any other. The specific objectives of industrial arts are as follows:

1. To develop recreational and vocational activity.
2. To increase appreciation for craftsmanship and design.
3. To increase consumer knowledge.
4. To provide experiences which help in choice of vocations.
5. To encourage creative expression.
6. To develop a certain amount of skill in a number of basic industrial processes.<sup>11</sup>

Industrial arts is no longer considered as the ideal place for boys who are poor in academic subjects but is accepted as a phase of general education and probably contributes more to the development of safety habits than any other course.

Philosophy of Vocational Industrial Education. Federally aided preparatory, vocational industrial education is a joint federal, state and local enterprise, with each civic unit having interests, privileges and responsibilities.

Preparatory vocational industrial education should provide training for the needs of the vast numbers of youth, both boys and girls, who enter the semiskilled

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<sup>10</sup>Friese, op. cit., page 58.

<sup>11</sup>Gordon O. Wilber, op. cit., page 42-43.

operating, assembling and service jobs in industry, transportation, and communication, as well as for those jobs classified as 'skilled trades'.<sup>12</sup>

All vocational courses are not federally aided but the concept of such programs is to provide people for gainful employment.

The Philosophy Applying to General Industrial Education.

A type of general industrial education is demanding attention and recognition. This was pointed out in the Smith-Hughes Act when provisions were made for the establishing of general industrial courses in cities under 25,000 inhabitants. The objectives of general industrial education as listed by Friese are:

1. To develop in each pupil a skill and ease in doing the wide variety of semiskilled operations essential to the upkeep of industrial plants and factories.
2. To develop versatility in handling tools and meeting problems where minimum trade skills are required.
3. To develop interest, confidence, and pride in each student and to direct him into some socially worthwhile occupation with confidence of success.
4. To fit for useful and profitable employment and to aid in the initial placement of such trainees into industrial life.<sup>13</sup>

General industrial education also contributes to the development of good work habits, and social attitudes.

Education for Life Adjustment. As previously stated in this paper education for life adjustment is recognition on the part of educational leaders to make education more democratic. It originated from a resolution presented by Charles

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<sup>12</sup>Friese, op. cit., page 68

<sup>13</sup>Ibid., page 221.



A. Prosser on June 1, 1945 at Wardman Park Hotel in Washington D. C. In the next year five regional conferences were held throughout the United States which were followed by a national conference in Chicago, Illinois on May 8, 1947. At this conference John W. Studebaker, then Commissioner of education, appointed members from nine national organizations to form the national commission on life adjustment education for every youth. The Commission proposed to cooperate with state departments of education, with teacher institutions and with professional associations in helping schools to develop plans to educate students for life.

#### C. THE APPLICATION OF THIS PHILOSOPHY

In this state a program designed to achieve the objectives discussed for general industrial education would be of immeasurable value. At the present time there is no such school for Negroes in the state of Oklahoma.

The Need of Industrial Education for Negroes in the State of Oklahoma. The only industrial training offered for Negroes in the state of Oklahoma is in industrial arts and a limited number of vocational courses offered in the separate schools. The industrial arts program in the separate school is so limited that there is little chance to offer a wide range of selectivity in the occupational skills.<sup>14</sup>

Charles Otis Stout made a study comparing the five largest vocational schools for whites with the five largest for

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<sup>14</sup>Phail Wynn, A Survey of the Industrial Arts Programs In the Separate Schools of Oklahoma and A Proposed Program For These Schools, page 15.

Negroes. He found that white vocational school students in Oklahoma have greater opportunity for employment in the specific vocations for which they have taken training than do Negro students.<sup>15</sup>

Objectives of Industrial Education for Negroes in the State of Oklahoma. In addition to the objectives previously designated for general industrial education, there are others that would prove most helpful for industrial education for Negroes in the state of Oklahoma. These objectives should be as follows: (1) to keep pace with changing community and industrial needs and to translate them into a comprehensive program of shop instruction; (2) to take advantage of all possible means to provide actual job experiences for the students without exploiting the students.

Conclusion. The purpose of this chapter has been to give a philosophy of industrial education and the need for this type of education for life adjustment. A philosophy of industrial arts and vocational education has been discussed because they are considered a phase of industrial education and the only type of industrial education available to most Negroes in the state of Oklahoma at the present time.

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<sup>15</sup>Charles Otis Stout, A Comparison Between Vocational Offerings and Job Placement in Five Vocational Schools for Negroes and Five Vocational Schools for Whites in Oklahoma, page 285.

## CHAPTER IV

### THE SURVEY

Before a program could be planned and the need determined for establishing an industrial school for Negroes in the state of Oklahoma, it was necessary to obtain certain information from potential employers. To obtain this information the questionnaire approach was used. A one page questionnaire and a letter to explain the purpose of the study were prepared. The length of the questionnaire and questions were limited in order not to consume too much time of the person answering them. For mailing, the questionnaire and letter of accompaniment were reproduced on the multilith machine.

Delimitations of the Questionnaire. Items concerning labor unions, fair employment practices and questions of political nature were excluded from the questionnaire because the writer felt that the purpose for asking such questions might easily be misinterpreted. It was also believed that by omitting the above items a larger number of questionnaires would be more completely filled out and returned. In order to obtain the honest opinion of the employers for this study, no space was provided for the name of the company. Because the replies were anonymous there was no need for hesitance on the part of the employer in answering the questions for fear the information could jeopardize their business.

Distribution of the Questionnaire. Prior to the reproduction of the questionnaire the writer visited a number of

places in the state of Oklahoma discussing the need for an industrial education school with proprietors, foremen, supervisors, managers and employers many of whom expressed their interest and willingness to participate in a study of this nature. A number of telephone directories were obtained from different cities from which a number of business places were selected to send the questionnaires. The questionnaire along with the letter of accompaniment, a copy of which may be found in Appendix B of this report, was mailed to sixty places throughout the state of Oklahoma. Approximately forty questionnaires were distributed during personal interviews some of which were answered during the interview and others were left to be mailed later.

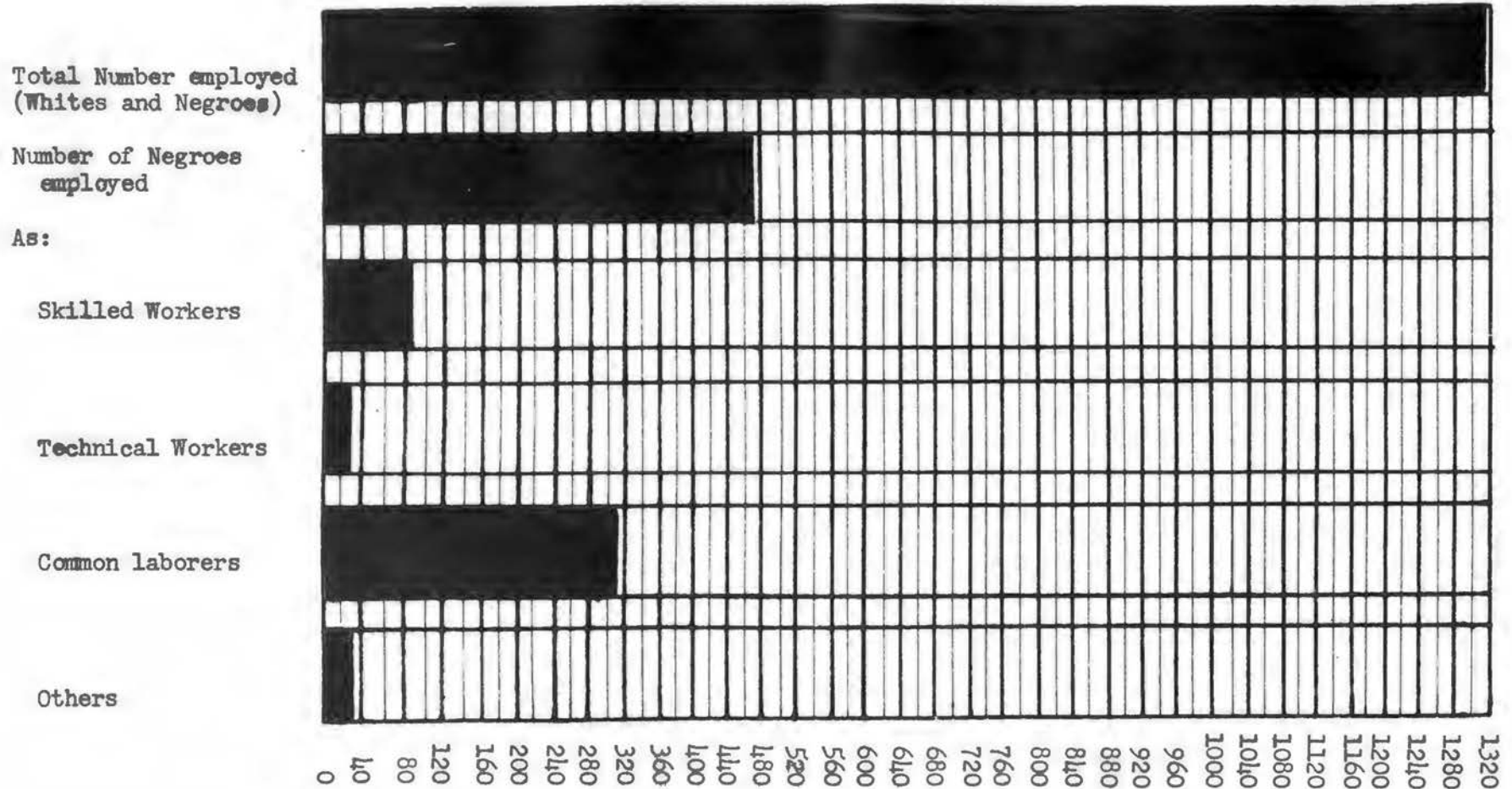
The Questionnaire. The purpose of this questionnaire was to determine the industrial jobs in which most Negroes are employed in the state of Oklahoma. The questionnaire consisted of eleven questions. The general nature of the questions centered around the number of Negroes employed, kind of workers, method of obtaining job, form of training given to employees to qualify for the job, attitude of employers and potential employers toward Negro workers, type of training the employers preferred for Negro employees and the attitude of employers toward the establishment of an industrial education school for Negroes in the state of Oklahoma.

Gainful Employment of Negroes in the State of Oklahoma. Approximately sixty-four of the 100 questionnaires distri-



TABLE III

TOTAL NUMBER OF GAINFULLY EMPLOYED PERSONS AND CLASSIFICATION OF NEGRO EMPLOYEES IN THE STATE OF OKLAHOMA AS INDICATED BY THE RETURN OF SIXTY-FOUR QUESTIONNAIRES, 1951



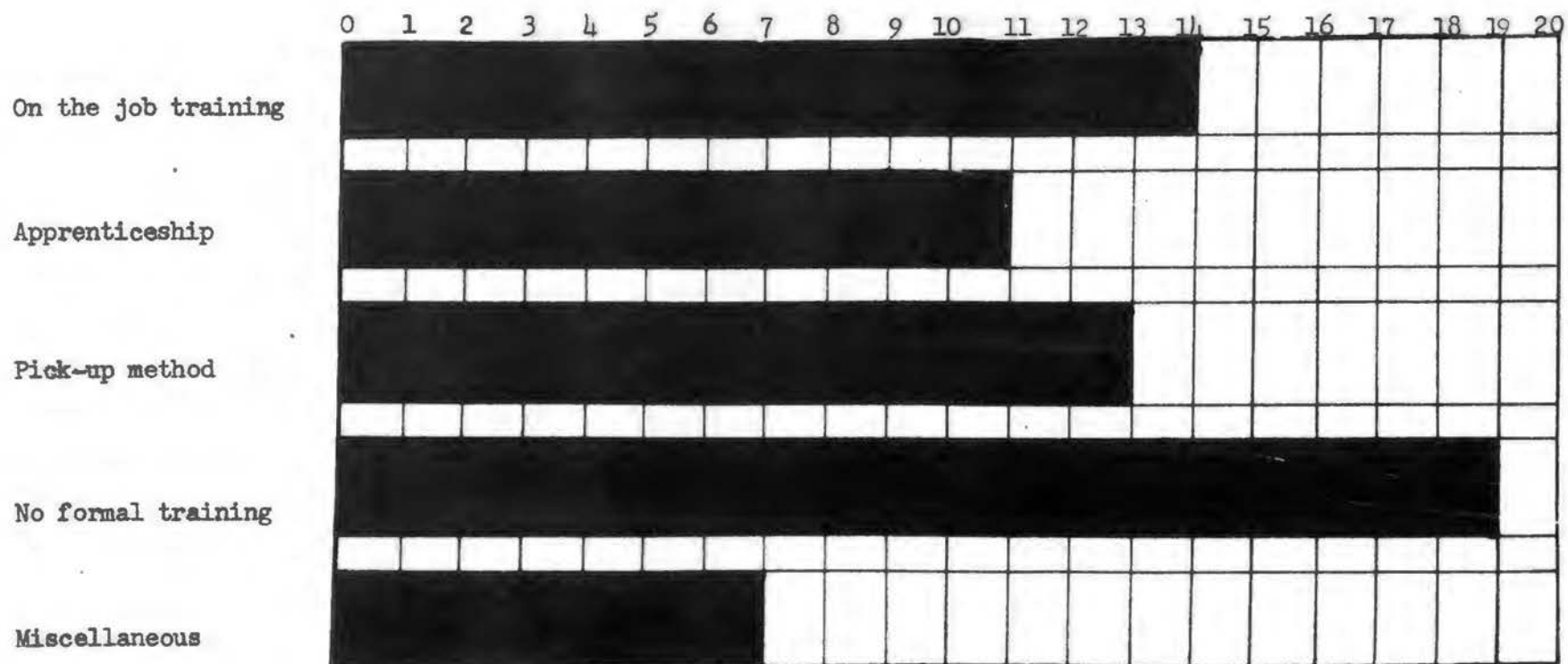
buted were returned. As indicated in Table III, 473 or 34.8 per cent of the persons employed in the various industrial establishments to which the questionnaires were sent, were Negroes. Out of this number 95 or 20.0 per cent of the Negro workers were classified as skilled workers, 31 or 6.5 per cent as technical workers, 314 or 66.4 per cent as common laborers and the remaining 33 or 6.9 per cent were not classified.

Method of Obtaining Employment. Twelve of the establishments in the survey use some form of application blank for potential employees. Forty-nine stated they use no form of application blanks and three did not answer the question. Some of the persons who stated they used no form of application blank did remark that they require persons seeking employment to report for an interview before they were hired.

Methods of Training New Employees. "Do you have any form of training for your employees?" To this question thirty-four said "yes", twenty-six said "no", and six did not answer. Of the thirty-four who provide some type of training for their employees, there was only a slight difference in the number who used the various methods as indicated in Table IV. There is some doubt as to whether or not the employers fully understand the terms "on the job training", "apprenticeship" and "pick-up-method" because the writer checked with the state Chamber of Commerce and found there is no record of Negroes serving an apprenticeship in the state of Oklahoma.

TABLE IV

METHODS OF TRAINING NEW EMPLOYEES IN THE SIXTY-FOUR INDUSTRIAL ESTABLISHMENTS REPORTING



School Training Desired for Employees. To the question "Do you think Negroes need a training program in mechanical skills?", fifty-eight answered "yes", one "no" and five did not reply. Several of the persons who answered yes to this question made such comments as: "Yes, if they want it;" "Yes, I think it would be alright." A manager of a small business firm who answered no to this question filled out the questionnaire during an interview and stated that he employed two Negroes, one a skilled worker and the other a common laborer. He also said "No school could train a man to do the type of skilled work we do here, he will just have to get his experience on this machine." When asked the question "Would you prefer hiring a new employee who had some formal training in preference to one who had none?", the answer was still "No, I would have to train him anyway." The view point of this manager was overshadowed by many others who approve of some form of industrial education school for Negroes.

Jobs To Which Trained Negroes Would Be Welcomed. Some employers replied to the statement "Name the jobs to which you would welcome the employment of trained Negroes", under such major headings as: auto mechanics, janitorial service, woodwork and others. Table V (B) will give a list of the jobs that employees in the state of Oklahoma would welcome trained Negroes. A few employers stated they would like for their employees to learn management, cooking, typing, responsibility, dependability, honesty and safety.

The jobs to which trained Negroes would be welcomed



varied little from the jobs that the employers said they

TABLE V

(A) JOBS EMPLOYERS WOULD LIKE FOR THEIR EMPLOYEES TO LEARN  
IN SCHOOL AND (B) JOBS TO WHICH TRAINED NEGROES  
WOULD BE WELCOMED

JOBS	(A)	(B)
Automobile Mechanics		
General Mechanics . . . . .	17	10
Washing . . . . .	18	22
Lubrication . . . . .	16	21
Brake Repair. . . . .	5	5
Service Station Attendants. . . . .	20	18
Body and Fender Repair. . . . .	10	12
Painting. . . . .	2	1
Tire Repair . . . . .	4	11
Truck Driving . . . . .	1	1
Graphic Arts . . . . .	1	1
Printing. . . . .	1	1
Janitor. . . . .	5	11
Laundry Work		
General . . . . .	5	1
Dry Cleaning. . . . .	1	1
Pressing Clothes. . . . .	3	3
Flat Work . . . . .	1	1
Pressing Shirts . . . . .	0	1
Lumber Work		
General . . . . .	2	2
Storage . . . . .	2	2
Recognition . . . . .	1	1
Machine Operators. . . . .	2	1
Power Tool Operators . . . . .	2	1
Salesmanship . . . . .	6	3
Shoe Repair		
General . . . . .	5	2
Dying . . . . .	3	7
Polishing . . . . .	3	8
Upholestry . . . . .	2	2
Welding. . . . .	1	1
Woodwork . . . . .	2	1
General . . . . .	12	10
Finishing . . . . .	1	1

would like for the students to learn in school (A), Table V.

Out of the group reporting in this study, only two stated they would not be willing to pay more for the trained employee, fifty-seven would pay more for the trained person and five did not answer the question.

Chances of Employment for the Trained Students. Forty-four employers indicated they would employ more Negroes if they were trained, nine do not and would not employ Negroes, two felt they had all the employees they needed and nine others did not answer the question. It is believed that the employers who failed to answer the question did so because they had all the employees needed at the time but had no objection to hiring trained Negroes.

The Attitude of Employers Toward an Industrial Education School for Negroes in the State of Oklahoma. As previously stated there was no space provided for the name of the industrial establishment from which the questionnaire was received, however, several did give their names on their own accord. Several of the persons who filled out the forms included various comments. Some of these were as follows:

- (1) I am happy to inform you I have had very good luck with my employees. My skilled worker has been with me twelve years.
- (2) Have no racial prejudice, but have had no experience with Negroes in skilled jobs.
- (3) I would not object to hiring Negroes in the skilled and technical jobs if they were taught responsibility, dependability and honesty.
- (4) Attitude and skills are my only requirements.
- (5) Law requiring separate toilets and drinking fountain facilities makes it difficult for small businesses to em-

ploy Negroes. No personal objections.

- (6) I am in full accord with your program of providing better training for Negroes. When this is done I think they will be more generally accepted in industry.

During the personal interviews many inspiring remarks were made by employers and potential employers, such as:

"I am very much in favor with your program."

"It would be a mighty nice thing if there was such a school."

"The answers to many problems confronting Negro laborers could be solved with a school of this nature."

One of the most interesting interviews was held at an oil industry. The writer had sent a questionnaire to this company but had not received an answer. During the interview the person with whom the writer talked said: "This questionnaire has been sent to several departments and no one will fill it out. They read and discuss it, then send it to another department." This company hired twelve Negroes as common laborers but because of customs or traditions the company had never given the idea of employing Negroes as skilled workers any consideration. After the interview the writer felt that the sending of the questionnaire to this firm may create an interest in the employment of Negroes in the skilled and technical jobs available at this particular firm.

Summary. In answer to the questionnaire, sixty-four replies were received. Of these fifty-six answered the questionnaire more or less completely. Six others answered but left most of the form incomplete.

The number of Negroes employed in any one firm ranged from one to 311. Since the number of employees varied so greatly, it was to be expected that the jobs employers would recommend their employees learn in school would be different.

Having completed the tabulations and interpretation of the data secured by the use of the questionnaire, the writer will undertake to point out and discuss some of the issues involved in establishing an industrial education school for Negroes in the state of Oklahoma.



## CHAPTER V

### ISSUES INVOLVED IN ESTABLISHING AN INDUSTRIAL EDUCATION SCHOOL FOR NEGROES IN THE STATE OF OKLAHOMA

The previous chapter has pointed out that there is a need for industrial education for Negroes in the state of Oklahoma. There are a number of issues to be considered in meeting this need. Some of the issues to be considered in establishing an industrial school are as follows:

1. What groups of persons are to be served?
2. What should the new organization or program be called?
3. Under what auspices should the new institution be established and operated?
4. In locating this institution should the emphasis be on placing it within commuting distance of the largest possible portion of the state's Negro youth?
5. How should the school be related to trade and vocational schools, elementary and secondary schools?
6. Who will determine what programs or curriculum shall be offered and in what place?
7. What should be the qualifications of the teachers? What degrees should they hold and how much experience should be required?
8. Will the new institution be free to all the youth of the state?
9. How should the new program be financed?

The above issues are not the only problems that should be

taken under consideration in establishing an industrial education school for Negroes in the state of Oklahoma. Other problems pertaining to the destiny of separate schools should be considered but the above issues are the most immediate ones. Therefore, they are discussed with recommendations based on the finding of the writer through research of literature, questionnaires and interviews.

Groups Served. The purpose of this school would be to provide training for students who have dropped out of school or have completed their school training and do not care to go to college or take a vocational course in some special trade. This school could make a contribution to that group that Pros-  
ser called the "sixty per cent" in the resolution presented by him to the members of secondary and vocational education in 1945 at Washington D. C. Any person who qualifies under the school laws of the state of Oklahoma should be admitted.

Suggested Name for the New Organization or Program.

This program could be referred to as "Industrial Education For Life Adjustment." This name seems appropriate because this program is interested in preparing students in the type of work in which they are most likely to be employed. The term industrial education is recommended in preference to industrial arts or vocational education because the purpose is not limited to general education or preparation for gainful employment but includes both.

Under Whose Auspices Should the New Institution Be Estab-

lished? As previously stated, this would be a school established for the purpose of meeting the needs of Negro youth that are not being met adequately by the public or vocational schools in the state of Oklahoma. The state has the power to tax and is able financially to support a school of this nature more than any other organization. Furthermore, when schools are state controlled there is a tendency for them to be more democratic.

Location. If this school is to be supervised by the state, the two places it would more likely be located are:

1. Langston University, Langston, Oklahoma, which is centrally located and where a number of facilities could be made available for the teaching of students from the existing Industrial Arts and Vocational Education Departments.

2. The Oklahoma State Fair Park in Oklahoma City would be suitable as an ideal place for the location for this type of school because most of the buildings are state-owned and are used only a short period of time during the year.

Relationship To Trade and Industrial Schools. From Table II on page 16, it can be seen that Negroes are engaged in various types of work. Many of them are employed as porters, caretakers, car washers and many other jobs that are not considered trades but are essential. The school should offer training to prepare persons to enter a gainful trade or industrial pursuit. It should not be limited to a said number of trades in which the students would find few chances of employment upon completion of such training.



Relationship To Elementary and Secondary Schools. The purpose of elementary and secondary schools is to provide the students with a general education. It focuses attention upon knowledge, skill and attitudes that are held to be useful for successful living without special reference or application to particular occupations or calling.

Industrial education deals with knowledge, skills and attitudes that prepare an individual wholly or in part for a definite occupation or vocational pursuit which equips him for successful living. General education should precede industrial education. Emphasis should not be placed on diplomas or degrees in the industrial education school.

Determining the Course of Study. Investigation and research should be pursued which would reveal the type of work in which most of the Negroes in the prescribed category are usually employed and the course of study developed upon these findings. This is especially true where it is impossible for the student to secure experience in the job until he is employed, for example, janitorial service and filling station attendants. The course of study should be designed so as to fulfill the objectives of industrial education as listed on page 22.

The subject matter of all industrial courses is composed of trade skills and related technical information. This subject matter is based upon occupational analysis, either in terms of jobs or processes or unit operations.<sup>1</sup>

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<sup>1</sup>John F. Friese, Course Making in Industrial Education, page 109.



This program should be flexible enough to provide the students with various amounts of experience, especially the students that desire to take the handy-man courses.

Qualification of Teachers. Teachers of industrial education should be qualified the same as teachers in the public schools. For many courses that should be taught in an industrial education school of this nature it might be difficult to obtain teachers with academic training and experience. The minimum qualifications should be comparable to the qualifications of teachers of vocational education that are federally reimbursed.

Conclusion. In order to establish an industrial school for Negroes in the state of Oklahoma the issues previously stated should be considered. The aims or purposes of the school should be made clear to all concerned. Means to supervise and finance a program of this type would require planning and study.

## CHAPTER VI

### A PROPOSED INDUSTRIAL EDUCATION SCHOOL PROGRAM FOR NEGROES IN OKLAHOMA

In this chapter a proposed program of activities for an Industrial Education school shall be considered. The type of training included in this program will be determined by local conditions, by the writer's personal experiences and by data obtained from the survey.

In formulating this program it is to be remembered that one of the purposes of this school is to provide industrial training for Negroes in the state of Oklahoma in the type of work they are most likely to seek employment. It is considered as one of the means of providing life adjustment education for Negro youth in the state of Oklahoma.

The Courses of Study. The course of study is designed to be used as a progress chart. When the student has completed one assignment it will be presented for the approval of the instructor. The instructor will evaluate the student's progress by placing a check in the space provided at the right of the course outline. The course of study is designed to enable both student and instructor to determine and direct the student's progress at all times. These courses of study are presented in outline form in this report.

Proposed Program for a Service Station Attendant. Service station work and responsibilities vary according to type and location of the business. Stations specializing in ser-

viating large trucks would require different equipment and service than one catering primarily to passenger cars but a program designed to teach students the basic fundamentals of service station work could be most helpful in any type of station.

Importance of the Service Station. Service stations are built and equipped to take care of American's many millions of automobiles. From these stations the motoring public not only obtains its basic need of gasoline and oil but in addition gets the all important periodic check-up of the car.

America is a nation on wheels. Even today, private cars carry eighty per cent of employed people to their jobs every day. This situation, therefore, makes the service station extremely important, not only as a place to buy gasoline and oil, but as a service center for car maintenance.<sup>1</sup>

The service station business has many advantages for young men and women interested in working for themselves or securing steady employment in the service station business.

The Negro Employee in the Service Station. Results of the survey show that in the state of Oklahoma most Negroes employed in service stations are employed as car washers, lubrication technicians and tire repairmen. Often the Negro employees service the customer, charge batteries, render road service and all of the other jobs that are performed by other employees. The survey also shows that most employers would

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<sup>1</sup>Service Station Retailing, page 11.

not object to hiring or advancing Negro employees to more skilled or technical jobs if they are trained to do the job.

Course of Study for the Service Station Worker. Service for automobiles is perhaps a necessity more than for any other machine. For this reason it is important that training for service station attendants be provided. One cannot expect the service station attendant to be a skilled automobile mechanic but he should be able to render service that is often rendered at service stations and have a fair knowledge of all phases of automobile mechanics. The list of learning units given here is a list of the services and repairs that a service station attendant should be able to do.

A. Things Service Station Employees Should Learn to Do.

1. Plan the procedure in doing a job. . . . . \_\_\_\_\_
2. Keep service records on customers  
automobiles . . . . . \_\_\_\_\_
3. How the gasoline pump works. . . . . \_\_\_\_\_
4. Clean gasoline lines . . . . . \_\_\_\_\_
5. How to wash a car. . . . . \_\_\_\_\_
6. How to clean and protect the various types  
of automobile upholstery. . . . . \_\_\_\_\_
7. How to polish a car. . . . . \_\_\_\_\_
8. How to wax a car . . . . . \_\_\_\_\_
9. Clean automobile parts and accessories  
with bench grinder and buffer . . . . . \_\_\_\_\_
10. Retouch scratches or damages to the  
finish. . . . . \_\_\_\_\_
11. Replace float in carburetor. . . . . \_\_\_\_\_
12. Clean and adjust the carburetor. . . . . \_\_\_\_\_
13. Test, remove and replace fuel pumps. . . . . \_\_\_\_\_
14. Remove and replace oil filters . . . . . \_\_\_\_\_
15. Draw and flush crank case. . . . . \_\_\_\_\_
16. Change and refill gear lubricant in  
transmission. . . . . \_\_\_\_\_
17. Lubricate automobile chassis . . . . . \_\_\_\_\_
18. Change and refill gear lubricant in  
differential. . . . . \_\_\_\_\_
19. Grease universal joints. . . . . \_\_\_\_\_
20. Change oil in steering gear. . . . . \_\_\_\_\_
21. Refill shock absorbers . . . . . \_\_\_\_\_



22. Add hydraulic brake lubricant. . . . .
23. Lubricate water pumps. . . . .
24. Inspect and replace front wheel bearings . . .
25. Disassemble and assemble automobile tires . . .
26. Patch a tire tube. . . . .
27. Insert a boot in a casing. . . . .
28. Inspect and adjust clutch. . . . .
29. Inspect and adjust differential. . . . .
30. Adjust and install hydraulic brakes. . . . .
31. Adjust and install mechanical brakes . . . . .
32. Locate and repair a short or open circuit. . .
33. Trace and test the ignition circuit. . . . .
34. Test and clean spark-plugs . . . . .
35. Clean and adjust breaker points. . . . .
36. Test and replace condensor . . . . .
37. Test and care for the battery. . . . .
38. Test and replace an ignition coil. . . . .
39. Test and repair generators . . . . .
40. Adjust tension on a fan or generator belt. . .
41. Test generator regulators. . . . .
42. Replace and test switches and gauges . . . . .
43. How to use an automobile analyzer. . . . .
44. Trace electric circuit from generator  
to battery. . . . .
45. Trace and test the ignition system . . . . .
46. Replace light bulbs. . . . .
47. Adjust, focus and test lights. . . . .
48. Trace and test the light system. . . . .
49. Test for and correct lost motion in  
steering mechanism . . . . .
50. Extract a broken stud and tapping  
in threads . . . . .
51. Disassemble and check a water pump . . . . .
52. Replace radiator water hose. . . . .
53. Remove sediment from the radiator. . . . .
54. Align front wheels . . . . .
55. How to balance wheels. . . . .
56. Recondition front ends . . . . .
57. Adjust valve clearance in L-head and valve-  
in head engines. . . . .

B. Things the Service Station Employee Should Know.

1. What products, supplies and services are  
more in demand during the different  
seasons of the year. . . . .
2. The sales that realize the most net profit . . .
3. The importance of station maintenance  
and appearance . . . . .
4. The need for establishing good work habits . . .
5. How to care for and use hand tools and equip-  
ment . . . . .
6. Psychology of service station selling. . . . .
7. How to meet objections and complaints. . . . .

8. Procedure for servicing customers' cars in the driveway. . . . . \_\_\_\_\_
9. Tools and materials required in service station operation . . . . . \_\_\_\_\_
10. Fire hazards and safety measures pertaining to the service station. . . . . \_\_\_\_\_
11. Importance of the service station employee in holding customers. . . . . \_\_\_\_\_
12. Facts about the manufacture of gasoline . . . . . \_\_\_\_\_
13. The importance of lubrication and the type of lubricant for the various automotive parts . . . . . \_\_\_\_\_
14. Types and uses of anti-friction bearings. . . . . \_\_\_\_\_
15. What is meant by caster, camber and toe-in and how they affect car operation . . . . . \_\_\_\_\_
16. The different types of brakes and axles . . . . . \_\_\_\_\_
17. How the gear-shift transmission works . . . . . \_\_\_\_\_
18. How the automatic transmission works. . . . . \_\_\_\_\_
19. The principles of the four stroke cycle engine. . . . . \_\_\_\_\_
20. What jobs the service station employee should perform under normal conditions . . . . . \_\_\_\_\_

Course of Study in Janitorial Service. The janitor fills an important place in the upkeep and daily routines that are conducted on most premises. The janitor is the caretaker, the engineer and the man behind the scenes. Viles states that:

The most efficient janitor is one who does his tasks in such a manner that the work of school moves smoothly without the occupants of the building realizing who is responsible for their physical comfort.<sup>2</sup>

The results of the survey made in this report show that many Negroes are employed as janitors. Many are employed in large firms and public buildings on full time bases where as others render janitorial service in connection with other duties in small establishments. With the invention of many new supplies, equipment and materials the trained janitor can

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<sup>2</sup>N. E. Viles, The School Janitor, page 3.

save valuable time but these new inventions have also created a need for an industrial education school that will provide this training. The industrial education school should strive to give direct and purposeful experience to the students desiring janitorial training.

A. Things Janitors Should Learn to Do.

1. Plan a procedure for doing daily tasks. . . . . \_\_\_\_\_
2. Dust and care for expensive furniture . . . . . \_\_\_\_\_
3. Clean and care for wood floors. . . . . \_\_\_\_\_
4. Clean and care for masonry floors . . . . . \_\_\_\_\_
5. Clean and care for composition floors . . . . . \_\_\_\_\_
6. How to sweep auditorium with seats. . . . . \_\_\_\_\_
7. How to polish and protect hardware on  
doors and furniture . . . . . \_\_\_\_\_
8. Clean and shine windows and other glass  
objects . . . . . \_\_\_\_\_
9. Check and repair door locks . . . . . \_\_\_\_\_
10. Mop and clean toilet room floors. . . . . \_\_\_\_\_
11. Clean toilet bowls, seats and metal  
fittings. . . . . \_\_\_\_\_
12. Clean and care for drinking fountains . . . . . \_\_\_\_\_
13. Clean closed lamp shades. . . . . \_\_\_\_\_
14. Repair an extension cord. . . . . \_\_\_\_\_
15. How to check and control room temperature . . . . . \_\_\_\_\_
16. Repair playground equipment . . . . . \_\_\_\_\_
17. How to hang, repair and regulate window  
curtains . . . . . \_\_\_\_\_
18. How to assemble a mop head. . . . . \_\_\_\_\_
19. Repair a leaky faucet . . . . . \_\_\_\_\_
20. Check and make minor repairs on electric  
scrubbing and polishing machine . . . . . \_\_\_\_\_
21. How to operate a vacuum cleaner . . . . . \_\_\_\_\_
22. Wax different type floors . . . . . \_\_\_\_\_
23. Check and care for fire extinguishers . . . . . \_\_\_\_\_
24. Check and care for fire escape devices. . . . . \_\_\_\_\_
25. Repair and refill soap dispensers . . . . . \_\_\_\_\_
26. Repair and refill tissue dispensers . . . . . \_\_\_\_\_
27. Read a working drawing. . . . . \_\_\_\_\_
28. Measure and divide space with a rule. . . . . \_\_\_\_\_
29. Drill holes in wood . . . . . \_\_\_\_\_
30. Drill holes in cement . . . . . \_\_\_\_\_
31. Drive and draw nails. . . . . \_\_\_\_\_
32. Apply stains, wax and enamel. . . . . \_\_\_\_\_
33. Test and replace fuses. . . . . \_\_\_\_\_
34. Attach a cord to a lamp socket. . . . . \_\_\_\_\_
35. Tie an underwriter's knot . . . . . \_\_\_\_\_
36. Remove an old finish on furniture . . . . . \_\_\_\_\_
37. How to apply kalsomine. . . . . \_\_\_\_\_

38. Plan and install electric devices in a circuit in series and in parallel . . . . . \_\_\_\_\_
39. Lubricate fans and other electrical appliances. . . . . \_\_\_\_\_
40. How to repair and hang screens. . . . . \_\_\_\_\_
41. How to repair small holes in plaster. . . . . \_\_\_\_\_
42. Fill cracks and holes in floors . . . . . \_\_\_\_\_

B. Things the Janitor Should Know.

1. The importance of being properly and neatly dressed . . . . . \_\_\_\_\_
2. To pay prompt attention to minor repairs which may prevent expensive ones later. . . . . \_\_\_\_\_
3. That the janitor's relationship with others should be courteous and cooperative . . . . . \_\_\_\_\_
4. Name and place to purchase janitorial supplies. . . . . \_\_\_\_\_
5. How to take an inventory. . . . . \_\_\_\_\_
6. How to heat, light and ventilate a room properly . . . . . \_\_\_\_\_
7. The proper tools to use to do the job . . . . . \_\_\_\_\_
8. Various washing powders and chemicals to use for maintaining sanitary conditions . . . . . \_\_\_\_\_
9. The importance of the janitor's work. . . . . \_\_\_\_\_
10. The use and types of various fire extinguishers . . . . . \_\_\_\_\_
11. The tasks that should be done daily, weekly, biweekly, monthly and etc. . . . . \_\_\_\_\_
12. How to make a hasty inspection of the building. . . . . \_\_\_\_\_
13. The importance of keeping records on supplies and equipment. . . . . \_\_\_\_\_
14. That the janitor is responsible for the safety and physical comfort of other members of the organization . . . . . \_\_\_\_\_
15. That major repairs on expensive equipment should be done by a specialist. . . . . \_\_\_\_\_

Proposed Program for Home Mechanics. Home mechanics is offered in some public schools either in the division of industrial arts or the division of home economics. When offered in public school the objectives of Home Mechanics are as follows:

1. To give consumer knowledge about the selection and efficient use of the products of industry that are a part of home living.



2. To develop handy-man abilities.
3. To teach the use of handicraft for leisure time.
4. To further the social objectives of general education.<sup>3</sup>

The above objectives are considered to be a phase of general education and not to prepare pupils for gainful employment.

The Need for Home Mechanics in an Industrial School for Negroes. As indicated in Table II, page 16, 1387 Negro males and 11,231 females were engaged in domestic work in 1940 in the state of Oklahoma. The Table also indicated that more Negroes were employed in domestic work than in any other line of work. It is the opinion of the writer that if people are going to be employed in a phase of work there should be some means of training them to qualify for this employment.

Course of Study in Home Mechanics. In addition to the objectives listed previously in Home Mechanics, one more should be added. The objective should be "to aid people in qualifying for domestic work." Since the purpose of the public school is to provide students with a general education, Home Mechanics could probably be taught better in an industrial education school. The following list of things the domestic worker should learn to do is based on a study made by Brown<sup>4</sup> of jobs actually done by housewives.

A. Things Domestic Workers Should Learn To Do.

1. How to sharpen a knife. . . . . \_\_\_\_\_

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<sup>3</sup>William H. Johnson and Louis V. Newkirk, Home Mechanica, page v.

<sup>4</sup>Ray E. Brown, Home Mechanics for Girls.

2. Lubricate a sewing machine. . . . .
3. How to varnish furniture. . . . .
4. How to polish a floor . . . . .
5. Paint woodwork and furniture. . . . .
6. Clean and polish furniture. . . . .
7. Lubricate washing machine . . . . .
8. Install an electric fuse. . . . .
9. Lubricate small electric appliances . . . . .
10. Remove scratches from furniture . . . . .
11. Repair an electric extension cord . . . . .
12. Paint interior walls. . . . .
13. Sharpen a pair of scissors. . . . .
14. Repair a screen door. . . . .
15. Make stakes for garden or flowers . . . . .
16. Adjust and clean burner oven gas stove. . . . .
17. Upholster chair seats . . . . .
18. Varnish linoleum. . . . .
19. Replace loose joints in furniture . . . . .
20. Remove old finish on furniture. . . . .
21. Repair a garden hose. . . . .
22. Replace handles in hoes, rakes, shovels and  
etc. . . . .
23. Solder pans, buckets, tubs and etc. . . . .
24. Repair drawers in furniture . . . . .
25. Replace washers in faucets. . . . .
26. Apply kalosmine . . . . .
27. Repair an electric iron . . . . .
28. Fill holes and cracks in floors . . . . .
29. Put in a window pane. . . . .
30. Make a house plan . . . . .
31. Make a simple furniture drawing . . . . .
32. Adjust a lawn mower . . . . .
33. Clean and adjust door locks . . . . .
34. Replace fuse in electric percolator . . . . .
35. Put a new valve in a gas stove. . . . .
36. Make knife and fork box . . . . .
37. Adjust a refrigerator . . . . .
38. Clean an electric motor . . . . .
39. Replace door hinges . . . . .
40. Paint porch floor and ceiling . . . . .

B. Things Domestic Workers Should Know.

1. Kinds of fuses and their uses . . . . .
2. How the electric meter works. . . . .
3. Safety rules in working with electric  
appliances. . . . .
4. How to identify different kinds of metals . . . . .
5. How to identify different kinds of wood . . . . .
6. Kinds of finish in common use such as  
stain, oil, wax, shellac, varnish, ena-  
mel and paint . . . . .
7. Types of locks and where used . . . . .

8. How to paper a room to make it look  
larger or smaller . . . . . \_\_\_\_\_
9. The principles of refrigeration . . . . . \_\_\_\_\_
10. How to light a gas stove safely . . . . . \_\_\_\_\_
11. How to sharpen knives . . . . . \_\_\_\_\_
12. How to hang pictures. . . . . \_\_\_\_\_
13. The proper care of appliances made from  
different kinds of materials. . . . . \_\_\_\_\_

Course of Study in Woodwork. A course of study in woodwork was proposed because more Negroes were employed in one organization of this nature than in any other one organization. The course of study is based on the answers employers gave to the question, "What jobs would you like for your employees to learn in school?"

A. Things Woodworkers Should Learn To Do.

1. Plan the procedure in doing the job . . . . . \_\_\_\_\_
2. Make out a bill of material . . . . . \_\_\_\_\_
3. Check materials when received . . . . . \_\_\_\_\_
4. Read a working drawing. . . . . \_\_\_\_\_
5. Measure and divide spaces with a rule . . . . . \_\_\_\_\_
6. Gauge with penell and with marking gauge. . . . . \_\_\_\_\_
7. Lay out a pattern on stock. . . . . \_\_\_\_\_
8. Transfer a design . . . . . \_\_\_\_\_
9. Make a butt-joint . . . . . \_\_\_\_\_
10. Apply filler and shellac. . . . . \_\_\_\_\_
11. Clean and care for stain and shellac  
brushes . . . . . \_\_\_\_\_
12. Apply stain, wax and enamel . . . . . \_\_\_\_\_
13. Hold stock with handscrews and clamps . . . . . \_\_\_\_\_
14. Lay out an octagon and chamfer. . . . . \_\_\_\_\_
15. Round or form work with a spokeshave. . . . . \_\_\_\_\_
16. Lay out and test cuts with a sliding  
T-bevel . . . . . \_\_\_\_\_
17. Shape ends, edges and curves with wood file . . . . . \_\_\_\_\_
18. Drive and draw nails. . . . . \_\_\_\_\_
19. Set a nail and brad . . . . . \_\_\_\_\_
20. Smooth surfaces with chisel and with  
scraper . . . . . \_\_\_\_\_
21. Trim or pare with a chisel. . . . . \_\_\_\_\_
22. Fasten with screws. . . . . \_\_\_\_\_
23. Bore holes with an auger-bit. . . . . \_\_\_\_\_
24. Counter sink holes. . . . . \_\_\_\_\_
25. Bore holes with a auger-bit in wood . . . . . \_\_\_\_\_
26. Round edges . . . . . \_\_\_\_\_
27. Plane a surface true and plane an end grain . . . . . \_\_\_\_\_



28. Test for squareness with the try-square . . . . .
29. Lay out square cuts with the try-square . . . . .
30. Sharpen woodwork hand tools . . . . .
31. Keep tools free from rust . . . . .
32. Adjust a jack-plane . . . . .
33. Apply stain and varnish . . . . .
34. Cut curves with a compass saw . . . . .
35. Prepare glue . . . . .
36. Glue up work . . . . .
37. Clean and care for paint brushes . . . . .
38. Lay out and cut a dado and a cross-lap joint . . . . .
39. Cut a groove and rabbit joint . . . . .
40. Lay out and cut tapers . . . . .
41. Do upholstering . . . . .
42. Set and use an expansive-bit . . . . .
43. Lay out an ellipse . . . . .
44. Put on locks and drawer pulls . . . . .
45. Put on hinges and ball-catches . . . . .
46. Apply lacquer . . . . .
47. Apply finish with a spray gun . . . . .
48. Clean and care for a spray gun . . . . .
49. Lay out and cut a housed joint . . . . .
50. Lay out and cut a blind mortise-and tenon joint . . . . .
51. Lay out and cut a miter joint . . . . .
52. Construct a panel . . . . .
53. Make a splined joint . . . . .
54. Make a drawer-slide . . . . .
55. Fasten on a table top . . . . .
56. Fasten with lag-screws . . . . .
57. Cut and edge mold . . . . .
58. Lay out and cut a haunched mortise-and tenon joint . . . . .
59. Give a fumed-oak finish . . . . .
60. Do simple upholstery that involves use of springs . . . . .
61. Do simple upholstery that involves webbing and rolled edges . . . . .
62. Prepare wood surfaces for finishing . . . . .
63. Operate a circular saw . . . . .
64. Operate a band and jig-saw . . . . .
65. Operate a wood lathe . . . . .
66. Operate a belt and disc sander . . . . .
67. Operate a wood drill . . . . .

#### B. Things Woodworkers Should Know.

1. How lumber is dried, effect of moisture . . . . .
2. Identify the different kinds of lumber . . . . .
3. The principal characteristics of lumber, the working qualities, principal uses and the source of supply . . . . .
4. Methods of cutting and milling lumber . . . . .



5. Standard dimensions of lumber and how classified. . . . . \_\_\_\_\_
6. Opportunities and requirements in carpentry and other woodworking trades . . . \_\_\_\_\_
7. Kinds of grinding and sharpening stones, their grades and uses . . . . . \_\_\_\_\_
8. Special types of fitting. . . . . \_\_\_\_\_
9. Types of locks and where used . . . . . \_\_\_\_\_
10. Types of latches and where used . . . . . \_\_\_\_\_
11. The locations of important manufacturing concerns. . . . . \_\_\_\_\_
12. The division of labor . . . . . \_\_\_\_\_
13. The use of automatic machinery. . . . . \_\_\_\_\_
14. Types of joints, where used and why . . . . . \_\_\_\_\_
15. Types of hinges and where used. . . . . \_\_\_\_\_
16. Rules of good furniture design. . . . . \_\_\_\_\_
17. Grades to use of steel wool . . . . . \_\_\_\_\_
18. Kinds, grades and principal use of sand paper. . . . . \_\_\_\_\_
19. How sizes and kinds of screws are indicated . . . . . \_\_\_\_\_
20. Kinds of screws and their use . . . . . \_\_\_\_\_
21. Kinds of nails and their use. . . . . \_\_\_\_\_
22. Size and how nails are sold . . . . . \_\_\_\_\_
23. Kinds of glue . . . . . \_\_\_\_\_
24. Preparation of glue . . . . . \_\_\_\_\_
25. Safety measures in operating woodworking machinery . . . . . \_\_\_\_\_
26. How veneers and plywood are made, their use . . . . . \_\_\_\_\_

Course of Study in Automobile Body and Fender Repair and Painting. The objective of this course of study is to assist the student in learning enough technical and related information to acquire sufficient manipulative skills to become employable as a beginning journeyman.

A. Things Automobile Paint and Body Repairmen Should Learn To Do.

1. Plan a procedure for doing the job. . . . . \_\_\_\_\_
2. Name parts and use of acetylene welding equipment . . . . . \_\_\_\_\_
3. How to install acetylene equipment. . . . . \_\_\_\_\_
4. Name parts and use of electric welding equipment . . . . . \_\_\_\_\_
5. How to prepare electric welding equipment for operation . . . . . \_\_\_\_\_
6. Regulate valves for lighting torch on acetylene welding . . . . . \_\_\_\_\_

7. Regulate valves for cutting metals. . . . .
8. Regulate valves for cutting flames. . . . .
9. Test and fix leaks in oxyacetylene welding equipment . . . . .
10. How to braze metals . . . . .
11. How to rough out fenders. . . . .
12. Remove wheels from automobiles. . . . .
13. Line up reinforcements. . . . .
14. Reshape fender brackets . . . . .
15. Weld broken places in fender. . . . .
16. Bump out dents. . . . .
17. Shrink stretched metal. . . . .
18. Stretch metal . . . . .
19. Estimate time on labor and material . . . . .
20. How to remove fenders from automobiles. . . . .
21. Remove paint from fender. . . . .
22. Fill in with body solder and putty. . . . .
23. How to file and sand metal. . . . .
24. Remove floor mats . . . . .
25. Reshape bumper brackets . . . . .
26. Straighten running boards . . . . .
27. Install new running boards. . . . .
28. Cold straighten bumpers with bending bars . . . . .
29. How to inspect for bent frame . . . . .
30. Inspect for bent axle . . . . .
31. Rough out doors . . . . .
32. Remove doors from car . . . . .
33. Remove garnish molding from doors . . . . .
34. Remove hardware from doors. . . . .
35. Remove upholstering from doors. . . . .
36. Remove glass and glass channels . . . . .
37. How to press out panels . . . . .
38. Hammer out rough spots. . . . .
39. How to re-assemble doors. . . . .
40. Straighten and finish wheel housings. . . . .
41. Remove and replace cowl panel . . . . .
42. Hammer metal smooth . . . . .
43. Repair radiator shell and grill . . . . .
44. Line up automobile bodies . . . . .
45. Straighten and repair hoods . . . . .
46. Repair turret tops. . . . .
47. How to mix and match paint. . . . .
48. How to mask a car for painting. . . . .
49. How to apply primer coating . . . . .
50. How to sand primer coating. . . . .
51. How to paint with spray gun . . . . .
52. Apply lacquer finish. . . . .
53. Apply enamel finish . . . . .
54. Rub out and polish automobile finish. . . . .
55. Wax automobile. . . . .
56. Install accessories on automobile . . . . .

B. Things Automobile Paint and Body Repairmen Should Know.

1. Safety instruction in welding . . . . . \_\_\_\_\_
2. How to care for welding equipment . . . . . \_\_\_\_\_
3. Melting temperature of various welds. . . . . \_\_\_\_\_
4. Type of flux to use for various welds . . . . . \_\_\_\_\_
5. Type of flux to use in brazing. . . . . \_\_\_\_\_
6. How to remove paint with chemicals. . . . . \_\_\_\_\_
7. Types and use of sandpaper. . . . . \_\_\_\_\_
8. Name and use of tools for hammering out  
dents in automobile bodies and fenders. . . . . \_\_\_\_\_
9. How to wire up automobile accessories . . . . . \_\_\_\_\_
10. What metals to braze and what metals to weld. . . . . \_\_\_\_\_
11. How to cold roll metal. . . . . \_\_\_\_\_
12. How to hot roll metal . . . . . \_\_\_\_\_
13. Various types of body solder and putty. . . . . \_\_\_\_\_
14. How to clean upholstering . . . . . \_\_\_\_\_
15. The amount and kind of thinner or reducer  
to use in various paints. . . . . \_\_\_\_\_

Course of Study in Shoe Repair. The course of study in shoe repair is proposed to aid many Negroes who are employed as "shine boys" as well as persons who are interested in this type of training. Often small shops have only one shoe repairman and one shoe shine employee. If the shoe shine employee had a knowledge of repairing shoes he could engage in this type of work when there were no customers who wanted shoe shines.

A. Things Shoe Shop Employees Should Learn To Do..

1. Replace whole rubber heels. . . . . \_\_\_\_\_
2. Replace half rubber heels . . . . . \_\_\_\_\_
3. Replace spring rubber heels . . . . . \_\_\_\_\_
4. Replace orthopedic, cuban and combination  
rubber heels. . . . . \_\_\_\_\_
5. How to base leather heels . . . . . \_\_\_\_\_
6. Rebuild leather heels . . . . . \_\_\_\_\_
7. Remove and replace wood heels . . . . . \_\_\_\_\_
8. Remove old soles. . . . . \_\_\_\_\_
9. Make a pattern for replacing soles. . . . . \_\_\_\_\_
10. How to repair welts . . . . . \_\_\_\_\_
11. Repair holes in in-soles. . . . . \_\_\_\_\_
12. How to remove stitches. . . . . \_\_\_\_\_
13. Replace shanks. . . . . \_\_\_\_\_
14. Replace fillers . . . . . \_\_\_\_\_
15. How to make a skive joint . . . . . \_\_\_\_\_
16. Cement leather soles. . . . . \_\_\_\_\_

17. How to scour bottoms. . . . .
18. How to set edges. . . . .
19. How to finish bottoms . . . . .
20. Cover wooden heels. . . . .
21. Cement soles on shoes . . . . .
22. How to sew a rip. . . . .
23. How to stretch a shoe . . . . .
24. Attach heel plates. . . . .
25. How to operate shoe repair machinery. . . . .
26. How to blend colors . . . . .
27. Replace counters. . . . .
28. Replace linings . . . . .
29. Replace uppers. . . . .
30. Stitch shoe soles . . . . .
31. Clean and polish shoes. . . . .
32. Disassemble and assemble true and imitation  
moccasin. . . . .
33. Replace whole soles on shoes. . . . .
34. Replace half soles with cement. . . . .
35. Patch shoes with cement . . . . .
36. Patch shoe vamps. . . . .
37. Patch greasy uppers . . . . .
38. Thread stitching machine. . . . .
39. Polish two tone shoes . . . . .
40. Dye shoes with brush and spray gun. . . . .
41. Lace and tie shoe strings . . . . .
42. Sharpen and use hand tools. . . . .

B. Things Shoe Shop Employees Should Know.

1. The various shoe supplies and their uses. . . . .
2. How to plan a procedure for doing a job . . . . .
3. Requirements for all type shoe construction . . . . .
4. Disassemble and assemble common type shoe  
construction. . . . .
5. Maintain and operate power machinery. . . . .
6. Safety rules in the shoe shop . . . . .
7. Judge and appraise jobs . . . . .
8. How to buy material and supplies. . . . .
9. How to help customers select proper  
repair work . . . . .
10. How to build and care for a shine . . . . .
11. How to clean and polish various kinds of  
shoes . . . . .
12. How to sell and display shoes . . . . .
13. Keep pace with the latest developments. . . . .
14. Estimate the cost of labor, materials,  
supplies and etc. . . . .
15. How to manage the shop. . . . .

Conclusion: In this chapter is found a proposed program for the types of training that could be started immedi-



ately to help Negroes qualify for the type of work in which the majority of them are employed. Even though a limited program was proposed for six courses, it is not the intention of the writer to convey the idea that Negroes should be trained in these courses only or that an industrial education school for Negroes should only offer these courses. The previously listed courses are a need at the present time and should be among the first to be given consideration.

## CHAPTER VII

### SUGGESTED EQUIPMENT, TEXTBOOKS AND REFERENCE BOOKS

Quite often a shop cannot be maintained at maximum efficiency due to the lack of tools or equipment. The diversified activities of an industrial education school necessitates a wide variety of tools, but in no great quantities. In this chapter the suggested tools, equipment and references are listed.

Equipment, Supplies and Accessories Needed for Service Stations. The service station attendant should know how to operate service station equipment along with buying and selling supplies. A number of stations sell and install automobile accessories. The following list will include tools, equipment, supplies and accessories with which the student should get experience. A selected list of textbooks and reference books are also included.

#### EQUIPMENT AND SUPPLIES

Air compressor  
Anvil - Number 100 or 125  
Armature growler and tester  
Automobile bulbs and lamps  
Battery cables  
Battery equipment complete unit  
Bench wood with vise  
Brake adjusting stand  
Brake band lining machine  
Cans - gas safety, five gallons  
Cans waste  
Carburetors  
Car polishers, waxes, and cleaning compounds  
Combination square  
Cooling system thermostats  
Creepers  
Distributors

Drill - electrical portable  $\frac{1}{2}$ "  
Fabric cleaner  
Fan belts  
First Aid cabinet and supplies  
Floor mats  
Floor wax  
Fuel pumps  
Furniture polish  
Fuses  
Gauge air pressure  
Gauge thickness  
Generators  
Glass cleaner  
Glass cutter  
Goggles - pair  
Grease gun - plain  
Grease gun pressure  
Grinder 8" with motor  
Household oil  
Ignition cables  
Insecticides  
Jacks - floor roller  
Kerosene  
Lamps, extension with shields  
Mufflers and tail pipe  
Naptha  
Oil cans - 1/3 pint  
Oil filters  
Pliers, combination  
Pliers, flat nose  
Pliers, round nose  
Pullers, gear  
Pullers, wheel hub type  
Putty knives  
Radiator and heater hose  
Radiator and heater hose  
Radiator anti-freeze  
Radiator cleaning and sealing compounds  
Radiator covers and screens  
Radiator fill caps  
Seat covers  
Shock absorbers  
Spark plugs  
Spot remover  
Spray painting unit  
Starter drives  
Tire chains  
Tool kits  
Trade-in replacement parts  
Traffic appliances  
Voltage regulators  
Vulcanizing - electric steam for tube work.  
Welding unit complete  
Wheel alignment - gauge  
Wheel alignment - test table

Wheel bearings and grease retainers  
 Winshield wipers

#### BOOKS ON SERVICE STATION RETAILING

Automobile Facts and Figures, Automobile Manufacturers Association, monthly.

Automobiles - Painting, Fisher Body Corporation, Detroit, 1950, 30 pages.

Auto Lubrication, Society of Auto Engineers, New York: Special Publications Department, Society of Automotive Engineers, 1944.

Crouse, William H., Automotive Mechanics, New York: McGraw-Hill Book Company, 1946, 673 pages.

Service Man's Guide to Automotive Lubrication, Chicago, Illinois: The Check Chart Corporation.

Service Station Retailing, Shell Oil Company, Incorporated, 1946, 202 pages.

Toboldt, William K., Automobile Body Rebuilding and Refinishing, Scranton, Pennsylvania: International Textbook Company 1950, 464 pages.

Tools and Equipment for the Janitor. A course in janitorial service should provide students with the type of experiences they are going to receive when they become engaged in this type of labor. This list consists of the number of tools, supplies and equipment with which students should become familiar while taking a course in janitorial service.

#### TOOLS, EQUIPMENT AND SUPPLIES

Boiler room tools  
 Chamois skin  
 Cleaning cloths  
 Cleaning compounds  
 Cockroach exterminators  
 Concrete floor hardeners  
 Counter brush  
 Deodorants  
 Disinfectants  
 Drain pipe cleaner



Dust box  
 Dust pan  
 Electric scrubbing and polishing machine  
 Extension ladder  
 Force cup or "plumber's friend"  
 Floor brushes  
 Floor mop treatment  
 Floor squeeze  
 Furniture polish  
 Galvanized metal pail  
 Ink spot remover  
 Lamb's wool applicator  
 Lawn and playground tools  
 Liquid wax  
 Long - handled deck scrubbing brush  
 Metal bushel basket  
 Miscellaneous small tools  
 Mop box  
 Mop brushes  
 Mop heads  
 Mop holders  
 Mop pail and carriage  
 Mop wringer  
 Paint scraper  
 Penetrating preservation for wood floors  
 Pocket tools  
 Radiator brush  
 Safety step ladder  
 Sanitary duster  
 Scouring powder  
 Scrubbing compound  
 Small scrubbing brush  
 Soft soap  
 Special no-rinse cleaner  
 Sponge  
 Spray gun  
 Synthetic detergents  
 Toilet bowl brush  
 Toilet bowl cleaner  
 Vacuum cleaner  
 Varnish remover  
 Wastepaper container  
 Window cleaning platform

#### BOOKS ON JANITORIAL SERVICE

Broady, Knute O., Ireland, Clifford J., and Miller, E. Lyle,  
A Handbook For School Custodians, Educational Monographs,  
 No. 4, University of Nebraska Bulletin 105, Lincoln, Ne-  
 braska, 1934.

Lee, John J., "Janitorial Man-Power in a High School Build-  
 ing", American School Board Journal, 83:56, December,  
 1931.

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Mahone, Leslie W., Keeping the Schoolhouse Clean, Iowa State College of Agriculture and Mechanical Arts, Vol. XXXI, No. 11, Ames, Iowa, 1932.

Martin, Ray L., Hunsdon, N. S., and Shaver, Charles N., Instructors' Manual for Training Public School Janitors and Janitor Engineers, State Board of Vocational Education, Bulletin No. 305, Austin, Texas.

Moskowitz, David R., Janitor Custodian, New York: Arco Publishing Company, 1935, 50 pages.

Newman, Robert George, Janitor Service in Small Libraries, 1938.

Williams, Frank, School House Keeping, Nashville, Tennessee: George Peabody College, 1940, 16 pages.

Equipment and Supplies in Home Mechanics. The equipment and supplies listed for Home Mechanics will include a number of necessities for the home. A course in Home Mechanics should provide the student with experiences pertaining to the equipment, supplies and maintenance of a home.

#### EQUIPMENT AND SUPPLIES

A hand spray  
Bells and buzzer  
Chairs  
Cooking utensils  
Cross-cut hand saw  
Door, screen and cabinet locks  
Dry cell  
Electric appliances  
Electric extension cord  
Electric fan  
Electric iron  
Electric motor  
Electric percolator  
Electric stove  
Electric work bench  
Food Mixer  
Garden hose  
Glue and clamps  
Grinder and stoves  
Hoes, rakes and shovels  
Kit hand working tools

Lawn mower  
 Paint remover  
 Refrigerator  
 Rip hand saws  
 Sandpaper and steelwool  
 Sewing machine  
 Soldering coppers  
 Stains and varnish  
 Upholstery - needle, webb stretcher, tack hammer  
 Varnish remover  
 Washing machine  
 Water faucet  
 Window frame and glass  
 Wire gauge

#### BOOKS ON HOME MECHANICS

Allen, Edith, Mechanical Devices In the Home, Peoria, Illinois: The Manual Arts Press, 1922, 251 pages.

Hall, F. F., "Practical Mechanics for Girls," Industrial Arts and Vocational Education Magazine, 38:159-160, May, 1932.

Hollenback, Ella, "Home Tinkering for Girls and Home Economics for Boys," Journal of Home Economics, 22:659, August 1930.

Preston, H. S., "Instruction in Home Mechanics and Maintenance for Girls in the Industrial Arts Shops," Industrial Education Magazine 39:32-24, January, 1937.

Selvidge, Robert W., "A Tentative Analysis of Home Mechanics", Industrial Arts and Vocational Education Magazine, 21: 69-70, February, 1932.

Equipment, Supplies and Tools Needed In Shoe Shops, The shoe shop is designed to repair, polish and care for shoes. These shoes are of various kinds, colors, materials and sizes. In order to render this service properly, workmen in shoe shops should have experience with the following list of tools, equipment and supplies.

#### TOOLS, EQUIPMENT AND SUPPLIES

Awls  
 Box for scrap material  
 Brads

Brushes  
 Buckles  
 Buttons  
 Cement  
 Counters  
 Dyes  
 Eyelets  
 Glue  
 Hammers  
 Heels  
 Hooks  
 Lasts  
 Leather  
 Leather tools  
 Movable racks for footwear  
 Nails  
 Polishes  
 Power machines  
 Sandpaper  
 Saddle soap  
 Shine parlor  
 Shine rags  
 Shoe linings  
 Shoe needles  
 Shoe repair kit  
 Shoe strings  
 Soles  
 Snaps  
 Spray gun  
 Thread  
 Uppers  
 Welts

#### BOOKS ON SHOE REPAIR

- Arey, Grace and Brooks, Hazel, Shoes, New York: Columbia University Press, 1932, 15 pages.  
 Krag, Henry, Shoe Repairing, Milwaukee; The Bruce Publishing Company, 1947.  
 Morrill, Maurice and Frederic, Webster, Repairing Footwear, Burlington: University of Vermont, 1946.  
 Wilcox, Ruth Turner, The Mode in Footwear, New York: C. Scribner's Sons, 1948, 190 pages.

Equipment for Body, Fender and Paint Work. The purpose of paint and body automobile shops is to repair and improve the appearance of automobiles. Since the results of improper use of tools and equipment may cause additional damage to



automobiles, persons engaged in paint and body repair work should have experience with the following list of equipment, tools and supplies.

#### TOOLS, EQUIPMENT AND SUPPLIES

Air Compressor  
 Abor press  
 Automobile body and fender tool kit.  
 Automobile polish and wax of various kinds  
 Benzol  
 Body putty  
 Body solder  
 Brushes  
 Curve dollies  
 Chains (of various size and length)  
 Clamps  
 Door bar  
 Electric hammer  
 Electric sander and buffer  
 Electric welding equipment  
 Fender files  
 Floor jacks  
 Flux  
 Glass (doors and windshield)  
 Hydraulic straighting equipment  
 Lacquers  
 Liquid cleaners and paint remover  
 Masking paper  
 Paint mixer  
 Panel dollies  
 Pigments  
 Power grinder  
 Rocker-action spoon  
 Sealers  
 Seat covers  
 Shine  
 Spoons  
 Spray gun  
 Stands  
 Synthetic enamels  
 Thinners  
 Top dressing  
 Welding equipment  
 Wet or dry sandpaper

#### BOOKS ON PAINTING, BODY AND FENDER REPAIR

General Motors Corporation, Research Laboratories Section,  
 Technical Date Department, Detroit, Michigan, 1944,  
 47 pages.

Heldt, Peter Martin, The Automobile Chassis, New York, 1945,  
 583 pages.

Kuns, Ray F., Automobile Fundamentals, Chicago: American Technical Society, 1948, 754 pages.

Taboldt, William King, Automobile Body Rebuilding and Refinishing, Scranton: International Textbook Company, 1950, 464 pages.

## CHAPTER VIII

This study is based on the need for industrial education for Negroes in the state of Oklahoma. The information gathered from research and the questionnaire has been used to propose a beginning program for an industrial education school for Negroes in the state of Oklahoma. It is intended that this proposed program would meet the needs of Negro children that are not profiting by existing public or vocational school programs.

Conclusions Based on Returns From Survey. The establishing of an industrial education school for Negroes would be welcomed by employers and potential employers in the state of Oklahoma. Many places are in accord with such a program but do not employ Negroes. This non-employment of Negroes is accounted for in some cases because of the fear of jeopardizing their business or separate lavatory and other facilities that are not available. Other conclusions based on the survey returns are:

1. More Negroes are employed as common laborer workers than skill and technical workers.
2. Most Negroes in the state of Oklahoma are not required to fill out an application when seeking employment.
3. Most places have no form of training for employees.
4. Most new employees are trained by pick-up methods.
5. More Negroes could secure employment in skilled and technical jobs if they were trained.

6. Employers would be willing to start new employees at a higher salary if they are trained.

Conclusions Based on Interviews. In addition to the above conclusions the writer found from interviews that the employee appears to have better work habits and work pride, when he has had some form of training for that job. The employees like to let it be known that they went to school to learn the job.

From interviews with employers the writer found that many large firms that do not object to employing or advancing Negroes to the more skilled jobs but because of customs or tradition they had never given this thought any consideration. Some places of employment are not as interested in employees knowing the job as they are in them having good work habits and being honest.

Recommendations. In establishing an industrial education school for Negroes in the state of Oklahoma, many issues occurred to the writer. Some of these were discussed in Chapter V and many other needed features occurred in planning a program for this school that were impossible for a number of reasons to include in the present program. Rather, they are presented as recommendations which would add to the establishing of a school and planning a program for Negroes in the state of Oklahoma. These recommendations are as follows:

1. That one Industrial Education school be established in the state of Oklahoma in preference to a number of community schools.



2. That further studies be made in order to broaden the program to meet the needs of the majority of Negroes in the state of Oklahoma. This would provide: (1) better recommendations for students seeking employment, and (2) a greater force to call to the attention of those in authority, the need for the state to provide employment for all its youth.

TRATHMORE PARCHMENT

100% RAC U.S.A.

## APPENDICES

- A. A SELECTED BIBLIOGRAPHY
- B. LETTER AND QUESTIONNAIRE

## APPENDIX A

## A SELECTED BIBLIOGRAPHY

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APPENDIX B

LETTER AND QUESTIONNAIRE USED IN THE INQUIRY

Box 183  
Langston University  
Langston, Oklahoma

Dear Sir:

In accord with the requirements of the graduate school of Oklahoma Agricultural and Mechanical College, I am making a study of the need for post-high school industrial education for Negroes in the state of Oklahoma.

A study has been made by the National Commission on Life Adjustment Education which points out that sixty per cent of the highschool students drop out of school before completing the twelfth grade or discontinue their schooling after graduating from the twelfth grade. It is my aim to gather information that will justify a program that will give this sixty per cent training in the type of work in which they are most likely to be employed.

In order to complete this study I shall need information concerning the gainful employment of Negroes in Oklahoma as compared to the number of whites and other races. Without the information you can give this study will not be complete.

May I ask then, that you fill out the enclosed questionnaire and return it to me within the next few days. Your cooperation will be greatly appreciated in supplying this information and returning it in the enclosed, self-addressed and stamped return envelope.

Sincerely,

Approved:

Hubert L. Parker

C. L. Hill  
Associate Professor,  
Industrial Arts Education  
Oklahoma A & M College



## QUESTIONNAIRE FORM

For Thesis Study: The Need for Post-Highschool Industrial Education for Negroes in Oklahoma

Information: This questionnaire has been prepared to determine the need for a school to train students who have completed the twelfth grade or students who drop out of school before completing the twelfth grade.

Directions: Please study carefully the items indicated in the list below and indicate answers in the spaces at the right.

- 
1. How many people do you employ? 1. \_\_\_\_\_
  2. How many Negroes do you employ as
    - a. Skilled Workers , , . . . . . a. \_\_\_\_\_
    - b. Technical Workers . . . . . b. \_\_\_\_\_
    - c. Common Laborers , , . . . . . c. \_\_\_\_\_
    - d. Others . . . . . d. \_\_\_\_\_
  3. Do you use any form of Application blank for persons seeking employment? 3. \_\_\_\_\_
  4. Do you have any form of training for your employees? 4. \_\_\_\_\_
  5. How are new employees trained in your company?
    - a. On the job training . . . . . a. \_\_\_\_\_
    - b. Apprenticeship. . . . . b. \_\_\_\_\_
    - c. Pick-up method. . . . . c. \_\_\_\_\_
    - d. No formal training, , . . . . . d. \_\_\_\_\_
    - e. Others. . . . . e. \_\_\_\_\_
  6. Do you think Negroes need a training program in mechanical skills? 6. \_\_\_\_\_
  7. What jobs would like for your employees to learn in school? 7. \_\_\_\_\_
  8. Would you employ more Negroes if they were trained? 8. \_\_\_\_\_
  9. Would you object to hiring more Negroes in the skilled and technical jobs? 9. \_\_\_\_\_
  10. Name the jobs to which you would welcome the employment of trained Negroes?
    - b. \_\_\_\_\_
    - c. \_\_\_\_\_
  11. Would you be willing to pay more for the trained employee? 11. \_\_\_\_\_

THESIS TITLE: THE NEED FOR INDUSTRIAL EDUCATION FOR  
NEGROES IN THE STATE OF OKLAHOMA

NAME OF AUTHOR: Hubert L. Parker

Thesis Adviser: C. L. Hill

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NAME OF TYPIST: Tollese B. Parker